Optical Fiber drop cable GJYXFH-1 Core 5.00mm APC to APC

Variants

125M 50M 75M 200M 150M 100M 35M

Details

Optical Fiber Cable Specification

Cable Technical Data

Item	Specification
No. of Fiber	1
Fiber Model	G.657A1
Inner Sheath Material	LSZH
Inner Sheath Diameter	2.0 × 3.0 mm (±0.03)
Strength Member 1	FRP, 0.5 mm (±0.03)
Strength Member 2	2 × Yarn, 5 × 1500D
Outer Sheath Material	LSZH
Outer Sheath Color	Black
Cable Diameter	5.0 mm (±0.2)
Attenuation @ 1310 nm	0.40 dB/km

Attenuation @ 1550 nm	0.30 dB/km
Allowable Tensile Strength	Short Term: 600 N / Long Term: 300 N
Allowable Crush Resistance	Short Term: 2200 N/100 mm / Long Term: 1000 N/100 mm
Temperature Range	Installation: -20°C to +60°C

Sheath Marking

Item	Details
Marking Color	White
Printing Interval	Every 1 meter
Sample Marking	KXOFC 2026 GJYXFH XXB1.3 (G.657A1) XXXXm
Note	Occasional unclear length marking is permitted if neighboring markings are clear.

Fiber Properties (ITU-T G.657A1)

Item	Specification
Fiber Type	Single Mode
Fiber Material	Doped Silica
Attenuation Coefficient	@1310 nm: ? 0.35 dB/km @1550 nm: ? 0.21 dB/km @1285–1330 nm: ? 0.38 dB/km @1625 nm: ? 0.22 dB/km
Point Discontinuity	? 0.05 dB

Cable Cut-off Wavelength	? 1260 nm
Zero Dispersion Wavelength	1300 ~ 1324 nm
Zero Dispersion Slope	? 0.092 ps/(nm²·km)
Chromatic Dispersion	@1285 ~ 1339 nm: ? 3.4 ps/(nm·km) @1271 ~ 1360 nm: ? 5.3 ps/(nm·km) @1550 nm: ? 18 ps/(nm·km)
PMDQ (Quadrature Average)	? 0.2 $ps/km^{1/2}$
Mode Field Diameter @1310nm	9.2 ± 0.4 µm
Core / Clad Concentricity Error	? 0.5 µm
Cladding Diameter	125.0 ± 0.7 µm
Cladding Non-Circularity	? 1.0%
Primary Coating Diameter	242 ± 5 µm
Proof Test Level	100 kpsi (=0.69 GPa), 1%
Temperature Dependence	0.1 dB/km @ 0°C ~ +70°C, 1310 & 1550 nm

* PMDQ is a link of 20 cable sections (M) and a probability level of 0.01% (Q).

Mechanical & Environmental Characteristics

Parameter	Value
Cable Bending Radius	20 × cable diameter (operation), 40 × cable diameter (installation)
Operating Temperature Range	-40°C to +60°C
Storage / Transport Temperature Range	-50°C to +70°C

Installation Temperature Range	-20°C to +50°C
Transport & Storage	-40°C to +60°C
Operation	-40°C to +60°C

Patch Cord Specification

Item	Specification
Insertion Loss	? 0.3 dB
Return Loss (SC/APC)	? 55 dB
Return Loss (SC/UPC)	? 60 dB
Each Roll Length	5 m ~ 500 m / roll (depending on customer requirements)

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